

	Amount	Agency	Research Subjects
6. <u>Harvard University</u> (Boston & Cambridge)			
Albright (EDC-2)	9,072	ACS	Metabolic interrelations
Albright (C-1887)	15,056	NCI	
Aub (C-4G)	13,000	ACS	Chemical variants &
Aub (INSTR-44E)	100,000	ACS	Cell mitosis
Aub & Nathanson (C-1393 C2)	25,500	NCI	Pituitary, steroid hormones & growth
Cohn (INSP-59B) (deceased)	7,000	ACS	Partial Support U.Lab.Phys.Chem.,Med.& Pub.Heal.
Eaton (C-1657 C)	16,464	NCI	Tissue proliferation & virus growth
Folch-Pi (BGH-11)	7,000	ACS	Brain strandin
Frazier (DRIR-182B)	10,000	DRMF	Paraohenylenediamine & living cells
Griesamer (F-104B)	Fellow	ACS	Respiratory enzymes of epidermis
Hertig (C-1611 C)	2,716	NCI	Cervix, pathogenesis, morphology
Hoagland (SG-12)	Scholar	ACS	Protein synthesis in neoplastic tissues
Ladman (F-147A)	Fellow	ACS	Anterior pituitary gland-histochemical
Munson (EDC-7)	8,814	ACS	Pharmacology of parathyroid
Seligman (C-312 C7)	30,000	NCI	Chemotherapy
Schilling (DRF-94A)	Fellow	DRMF	Metabolism & endocrine activity
Stare & Geyer (C-722 C5)	15,000	NCI	Fat emulsion
Straus (F-182)	Fellow	ACS	Pigment formation & growth of maize endosperm
Thimann (BO-6G)	6,079	ACS	Plant growth
Wetmore & Thimann (BO-16E)	4,500	ACS	Conducting system in vascular plants
Wright (BAF-22)	Fellow	ACS	Lymphoid tissue
Zamecheck & Vitale (C-1323 C3)	15,000	NCI	Gastrointestinal tract pathology
	285,201		Nutrition
7. <u>Marine Biological Laboratory</u> (Woods Hole)			
Armstrong (R-7E)	1,600	ACS	Radiobiology
Armstrong (R-7Es)	5,000	ACS	
	6,600		
8. <u>Massachusetts Eye and Ear Infirmary</u> (Boston)			
Balazs (C-1685 C)	8,500	NCI	Acid mucopolysaccharides & tissue growth
9. <u>Massachusetts General Hospital</u> (Boston)			
Aub (C-558 C5)	17,712	NCI	Chemotherapeutic & phys.agents & cytochemistry
Aub et al. (H-15A)	10,000	ACS	Urinary steroids
Castleman (G-1973)	7,341	NCI	Testes, spermatogenesis
Churchill (INSTR-16F)	120,000	ACS	Basic science & clinical investigations
Churchill (DRIR-187A)	53,700	DRMF	
Colby (J-1649 C)	12,080	NCI	Bladder, cervix
Jones (F-189)	Fellow	ACS	Adenosine triphosphate-coenzyme A-acetate reaction
Lipmann (C-823 C4)	21,583	NCI	Biosynthetic mechanisms
Moldawer (F-150A)	Fellow	ACS	Metabolism & growth
Morgan (C-22)	4,558	ACS	Golgi substance, pancreas homogenates
Nathanson & Engel (#106)	16,760	JCC	Urinary steroid metabolites
Scott (BGH-17)	6,500	ACS	Spectroscopic investigation, molecular inter-
Scott (SG-5)	Scholar	ACS	action, growth
Sweet	23,100	AEC	Isotopes, brain, neurosurgical relief of pain,
Sweet (DRIR-161A)	8,750	DRMF	Dev. stereotactic methods
Zamecnik & Aub (E-16E)	6,000	ACS	Protein metabolism
	308,084		
10. <u>Massachusetts Institute of Technology</u> (Cambridge)			
Bear (C-18B)	7,560	ACS	X-ray diffraction connective tissue
Buchanan (DRIR-239)	11,000	DRMF	Enzyme systems
Fitzgerald (F-102B)	Fellow	ACS	Protein fiber formation
Remy (F-136A)	Fellow	ACS	Biosynthesis of nucleotides
Rothstein (DRF-145)	Fellow	DRMF	Ossified nerve proteins
Spiro (DRF-123A)	Fellow	DRMF	Ultrastructure of mitochondria
	18,560		

1003537484

	Amount	Agency	Research Subjects
11. <u>University of Massachusetts</u> (Amherst) Woodside (C-1661 C)	8,375	NCI	Chemotherapy
12. <u>New England Center Hospital</u> (Boston) Alisangco (DRF-147) Dameshek (GPB-16C) Desai (DRF-135) Kumminos (DRF-97A) Patterson (F-180) Pratt (CS-16A)	Fellow 6,696 Fellow 6,674 Fellow 4,752 11,448	DRMF ACS DRMF DRMF ACS ACS	Serum proteins of patients, leukemia, etc. Hemolytic antibodies & leukemia, etc., hemolytic anemia White cell antibodies & leukemia Immunohemolytic anemia & leukosarcoma Cell growth & host resistance Pancreas, urinary enzymes
13. <u>New England Deaconess Hospital</u> (Boston) Gates (C-1844) Hicks (C-1042 C3) Sommers (C-1936) Warren (DASP-74)	8,573 9,774 6,674 10,000 35,021	NCI NCI NCI ACS	Intercellular substances tumor stroma Tissue metabolism nervous system Human cancer growth, hamster Expenses, Polaroid Color Transplanting Ultraviolet Microscope-Dr. Ruth Graham, etc.
14. <u>Peter Bent Brigham Hospital</u> (Boston) Goetz (DRF-73A) Haydar (DRF-144) Sturgis (H-17A)	Fellow Fellow 4,816 4,816	DRMF DRMF ACS	Adrenalectomy & prostate, hyperinsulinism Adrenal steroid metabolism Steroid hormones & endometrial nucleic acids
15. <u>Scientific Specialties Corporation</u> (Boston) "Microscopes" (INSP-73) "Microscopes" (DRIR-252)	75,000 10,000	ACS DRMF	Purchase, color translating ultraviolet microscope
16. <u>Thorndike Memorial Laboratory</u> (Boston) Freinkel (F-168)	85,000 Fellow	ACS	Tissue iodide accumulation
17. <u>Tufts College</u> (Medford & Boston) Bernfeld (C-1680 C) Bonner (C-1958) Christensen (C-1268 C2) Davidson (F-191) Fishman (C-915 C4) Fishman (C-915 C5) Fishman (C-1964) Fishman & Bernfeld (E-39B) Homburger (INSTR-31F) Homburger (DRIR-43C) Kasdon (C-1978) Shen (GPB-15D)	6,000 4,762 16,330 Fellow 10,000 10,000 5,000 4,800 50,000 9,401 6,856 Ext. time 123,149	NCI NCI NCI ACS NCI NCI NCI ACS ACS DRMF NCI ACS	Plasma proteins, micro-electrophoresis Glucuronic acid metabolism, humans Amino acid assimilation & cells Phosphoproteins, prostatic acid phosphatase B-glucuronidase & growth Biochem. stud. prostatic acid Phosphatase Purified B-glucuronidase Enzymatic synthesis glucuronidase Plasma proteins, mice Vaginal beta-glucuronidase Anemia
18. <u>Vincent Memorial Hospital</u> (Boston) Graham (C-1810)	11,053	NCI	Radiation & sensitization response-SR
19. <u>Wellesley College</u> (Wellesley) Jones (C-821 C5)	5,956	NCI	Mammary glands, mice Tests on paramecia
20. <u>Worcester Fdn. for Experimental Biology</u> (Shrewsbury) Pincus (EDC-8) Pincus (INSTR-63B) Pincus (DRIR-61C)	10,933 18,600 10,700 40,233	ACS ACS DRMF	Biogenesis androgens & estrogens Steroid metabolism

1003537485

MICHIGAN

	Amount	Agency	Research Subjects
1. <u>Detroit Institute of Cancer Research</u> (Detroit)			
Albert & Johnson (BCH-1A)	5,000	ACS	Chromosomes, phosphorus meta. & endocrine organs
Guthrie (C-1872 R)	7,859	NCI	Ovarian cells
Johnson & Albert (C-928 C4)	8,125	NCI	Cells, phosphoprotein, mammalian tissues
Johnson & Albert (C-1692 R)	4,300	NCI	
Raut	35,739	EUPF	Chemotherapy
Simpson & Scott (INSTR-17F)	50,000	ACS	Integrated stud., clin. & exper.
	111,023		
2. <u>Michigan State College</u> (East Lansing)			
Tukey & Lucas (CH-17)	8,000	ACS	Assay, substances, cell behavior
3. <u>University of Michigan</u> (Ann Arbor)			
Bauer (C-1719 R)	7,425	NCI	Tumor glutathione
Bethell (C-1994)	11,381	NCI	Labile methyl, leukemic, non-1., & pteroylglutamic acid
Furstenberg (INSTR-69A)	15,000	ACS	Nature, detection, cure
Hodges	3,000	EUPF	Clinical records
Miller et al. (C-1896)	5,000	NCI	Estrogen
Susman (MET-11B)	2,160	ACS	Ascospores of neurospora
Sutherland (C-1559 C2)	7,000	NCI	Infrared spectroscopy & protein molecules
Vial (C-1835)	14,110	NCI	Antibody-isotope complex, human
	65,076		
4. <u>Siena Heights College</u> (Adrian)			
Stinson (PH-12B)	1,188	ACS	Ultraviolet absorption & nucleic acid deriv.
5. <u>Wayne University</u> (Detroit)			
Djerassi (EDC-3)	6,782	ACS	Isomers, analogs steroid hormones

MINNESOTA

1. <u>Concordia College</u> (Moorehead)			
Werth (C-1606 C)	216	NCI	Benzo(c)phenanthrene & derivatives
2. <u>University of Minnesota</u> (Minneapolis)			
Barnum (V-5G)	6,000	ACS	Mammary glands, mice
Bittner (EG-17G)	5,000	ACS	Mammary cancer & genetics
Bittner (EG-18G)	10,000	ACS	Tumor milk agent
Bittner	20,000	EUPF	
Cohen (C-1330 G2)	10,495	NCI	Steroidal conjugation mechanisms
Diehl (INSTR-49D)	75,000	ACS	Insti. research, U. Minn.
Gutman (MET-21)	4,000	ACS	Carcinogenic amines & metabolism
Hitchcock (C-298 C7)	15,000	NCI	Gastric cancer, methylcholanthrene
Hitchcock (C-1218 G2)	3,980	NCI	induction, stomach
Kolthoff (C-721 C4)	15,660	NCI	Metal ions & sulfhydryl compounds
Kolthoff (C-721 C5)	15,000	NCI	Blood sera
Reed (EG-24E)	6,925	ACS	Genetics, breast, human
Syvertson (V-6G)	4,800	ACS	Host cell & virus, immunization
Syvertson (C-725 C4)	15,000	NCI	leukemia & mammary - mice
Wangenstein (DRIR-99B)	15,000	DRMF	"Second-Look" operations
Wild (C-1244 G2)	21,616	NCI	Ultrasonic pulses & tissue density changes
Zimmerman (SG-17)	Scholar	ACS	Endocrine physiology & metabolic balance
	243,476		

MISSOURI

1. <u>Midwest Research Institute</u> (Kansas City)			
Goodson (C-802 C4)	31,270	NCI	Animal assay for treatment
Goodson (C-1816)	3,051	NCI	

1003537486